

CLAIMS

1. A sheet having a composite structure for stabilizing coatings, comprising:

a first layer and a second layer, both made of fiber material impregnated with a first impregnating material and a second impregnating material, respectively; and
a body layer set between said first layer and said second layer according to a general sandwich structure, said body layer being made of a third material; and
said first and second impregnating materials and said third material presenting a substantial affinity, so that said sheet has a physically heterogeneous and chemically homogeneous structure.

2. The sheet according to Claim 1, wherein said first and second impregnating materials and said third material presenting a substantial affinity are polymeric materials comprising polyvinyl chloride, thermoplastic polyolefins and thermoplastic polyurethanes.

3. The sheet according to Claim 2, wherein said polymeric materials presenting a substantial affinity is polyvinyl chloride.

4. The sheet according to Claim 1, wherein said fiber material is silica fiber or polyester fiber.

5. The sheet according to Claim 1, wherein said first and second impregnating materials is a jellified material.

6. The sheet according to Claim 5, wherein said jellified material is polyvinyl chloride plastisol.

7. The sheet according to Claim 1, wherein said third material constituting said body layer is a material obtained by compacting of granules.

8. The sheet according to Claim 1, wherein said body layer has a thickness of less than 2 mm.

9. The sheet according to Claim 8, wherein said body layer has a thickness of approximately 1.5 mm.

10. The sheet according to Claim 1, wherein said first layer and said second layer of fiber material have respective outer surfaces with respect to the sheet and in that on at least one of the surfaces there is present a layer of glue.

11. The sheet according to Claim 10, wherein said glue is present on the top outer surface in the condition of laying of the sheet.

12. The sheet according to Claim 10, wherein said glue is present on the bottom outer surface in the condition of laying of the sheet.

13. The sheet according to Claim 10, wherein said glue is of a highly tacky type.

14. The sheet according to Claim 1, wherein one between said first layer and said second layer of fiber material has a bottom outer surface in the condition of laying of the sheet and in that on said bottom outer surface there is present a layer of foam material.

15. The sheet according to Claim 14, wherein said layer of foam material is in the form of distinct areolas.

16. The sheet according to Claim 14, wherein said layer of foam material consists of polyvinyl chloride foam.

17. The sheet according to Claim 1, wherein said first layer presents on the top outer surface in the condition of laying of the sheet a layer of absorbing material.

18. The sheet according to Claim 17, wherein said absorbing material is constituted by a non-woven textile.

19. The sheet according to Claim 17, wherein said absorbing material presents a density ranging from about 50 to 150 g/m².

20. The sheet according to Claim 18, wherein said non-woven textile presents non oriented fibers.

21. The sheet according to Claim 17, wherein said absorbing material is a polyester non-woven textile.

22. A process of making a composite sheet comprising the steps of: impregnating a first layer of fiber material with a first impregnating material, said first layer having a first surface and a second surface, said first surface being the top outer surface with respect to the composite sheet, and said second surface facing a body layer;

impregnating a second layer of fiber material with a second impregnating material, said second layer having a third surface and a forth surface, said third surface facing the body layer, and said forth surface being the bottom outer surface with respect to the composite sheet;

depositing, on the third surface of the second layer, a layer of a third material to form the body layer;

placing the second layer atop the body layer, thereby forming a composite having said body layer set in between said first layer and said second layer according to a general sandwich structure;

heating the composite to allow the body layer to melt; and
pressing the composite.

23. The process according to Claim 22 wherein said first layer is impregnated by soaking of said first layer by said first impregnating material and said second layer is impregnated by soaking of said second layer by said second impregnating material.

24. The process according to Claim 22 wherein said composite is heated to about 165-170°C at input and about 210-220°C at output.

25. The process according to Claim 22 wherein said composite is subjected to pressure which results in the compacting of said first, second and said body layers.

26. The process according to Claim 22 wherein said third material is a granular material.

27. The process according to Claim 22 wherein said first, second impregnating materials and said third material comprise polyvinyl chloride, thermoplastic polyolefins and thermoplastic polyurethanes.

28. The process according to Claim 27 wherein said first, second impregnating materials and said third material are each polyvinyl chloride.

29. The process according to Claim 22 wherein said first and second impregnating materials are jellified polymeric material.

30. The process according to Claim 29 wherein said jellified material is polyvinyl chloride plastisol.

31. The process according to Claim 22 further comprising the step of affixing distinct areolas of foam structure material to the bottom outer surface with respect to the composite.

32. The process according to Claim 31 wherein the foam structure material is polyvinyl chloride foam.

33. The process according to Claim 22 further comprising the step of applying a layer of adhesive material to the top and/or bottom outer surfaces of the composite sheet.

35. The process according to Claim 22 further comprising the step of affixing a layer of absorbing material to the top outer surface of the composite.